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1 Class notes: don't be a WIMP: (http://www.not-for-wimps.org)
Johannes Behr, Dirk Reiners
August 2008   **SIGGRAPH '08:** SIGGRAPH 2008 classes
Publisher: ACM   Request Permissions

Full text available: Flv (93:37 MIN), Mov (93:28 MIN), Pdf (6.40 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 43,   Downloads (12 Months): 271,   Downloads (Overall): 632,   Citation Count: 0

Virtual and augmented reality have been around for a long time, but for most people they are movie fantasies. Very few people outside a few research labs have worked with or experienced these systems for themselves. On the other hand, interactive 3D ...

2 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April   **Transactions on Information Systems (TOIS)** , Volume 22 Issue 2
2004
Publisher: ACM   Request Permissions

Full text available: Pdf (316.85 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 50,   Downloads (12 Months): 454,   Downloads (Overall): 4021,   Citation Count: 25

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keywords: applications., definitions, foundations, taxonomy

3 A simple mechanism for capturing and replaying wireless channels
Glenn Judd, Peter Steenkiste
August   **E-WIND '05:** Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to
2005   wireless network design and analysis
Publisher: ACM   Request Permissions

Full text available: Pdf (6.06 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 42,   Downloads (12 Months): 387,   Downloads (Overall): 2262,   Citation Count: 3

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

4 Communications of the ACM: Volume 52 Issue 4

April 2009   Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (7.58
MB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 369,   Downloads (12 Months): 1129,   Downloads (Overall): 2101,   Citation Count: 0

5 Communications of the ACM: Volume 52 Issue 9

September 2009   Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (7.28
MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 553,   Downloads (12 Months): 553,   Downloads (Overall): 553,   Citation Count: 0

6 A generic component model for building systems software

Geoff Coulson, Gordon Blair, Paul Grace, Francois Taiani, Ackbar Joolia, Kevin Lee, Jo Ueyama,
Thirunavukkarasu Sivaharan

February   **Transactions on Computer Systems (TOCS)** , Volume 26 Issue 1
2008
Publisher: ACM   Request Permissions

Full text available: Pdf (603.88
KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 99,   Downloads (12 Months): 423,   Downloads (Overall): 1502,   Citation Count: 16

Component-based software structuring principles are now commonplace at the application level; but
componentization is far less established when it comes to building low-level systems software. Although
there have been pioneering efforts in applying componentization ...

Keywords: Component-based software, computer systems implementation

7 Communications of the ACM: Volume 53 Issue 1

January 2010   Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (8.09
MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 750,   Downloads (12 Months): 750,   Downloads (Overall): 750,   Citation Count: 0

8 Communications of the ACM: Volume 52 Issue 2

February 2009   Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (7.09
MB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 325,   Downloads (12 Months): 831,   Downloads (Overall): 3195,   Citation Count: 0

9 Using high-speed WANs and network data caches to enable remote and distributed visualization

Wes Bethel, Brian Tierney, Jason lee, Dan Gunter, Stephen Lau

November   **Supercomputing '00:** Proceedings of the 2000 ACM/IEEE conference on Supercomputing
2000   (CDROM)
Publisher: IEEE Computer Society

Full text available: Pdf (302.38
KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 50,   Downloads (Overall): 434,   Citation Count: 22

Visapult is a prototype application and framework for remote visualization of large scientific datasets. We
approach the technical challenges of tera-scale visualization with a unique architecture which employs high
speed WANs and network data caches ...

10 MANTIS OS: an embedded multithreaded operating system for wireless micro sensor platforms

Shah Bhatti, James Carlson, Hui Dai, Jing Deng, Jeff Rose, Anmol Sheth, Brian Shucker, Charles Gruenwald, Adam Torgerson, Richard Han

August 2005   **Mobile Networks and Applications** , Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: Pdf (1.27 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 142,   Downloads (Overall): 630,   Citation Count: 42

The MANTIS MultimodAl system for NeTworks of In-situ wireless Sensors provides a new multithreaded cross-platform embedded operating system for wireless sensor networks. As sensor networks accommodate increasingly complex tasks such as compression/aggregation ...

Keywords: cross-platform, dynamic reprogramming, embedded operating system, lightweight, low power, multithreaded, sensor networks

11 SplitStream: high-bandwidth multicast in cooperative environments

Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, Animesh Nandi, Antony Rowstron, Atul Singh

December 2003   **SOSP '03:** Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM   Request Permissions

Full text available: Pdf (847.74 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 236,   Downloads (Overall): 2008,   Citation Count: 172

In tree-based multicast systems, a relatively small number of interior nodes carry the load of forwarding multicast messages. This works well when the interior nodes are highly-available, dedicated infrastructure routers but it poses a problem for application-level ...

Keywords: application-level multicast, content distribution, end-system multicast, peer-to-peer, video streaming

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

12 Workshop report from IEEE VR 2007: future standards for immersive VR

Nicholas F. Polys, Don Brutzman, Anthony Steed, Johannes Behr

December 2008   **SIGGRAPH Asia '08:** SIGGRAPH ASIA 2008 courses

Publisher: ACM   Request Permissions

Full text available: Pdf (948.30 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 95,   Downloads (Overall): 139,   Citation Count: 0

The motivation for this workshop was to create shared understanding between the Virtual Reality (VR) and Web3D communities. While the two fields of Web-based 3D graphics and VR 3D graphics have tended to view their technology as different beasts, they ...

Keywords: computer graphics, data storage representations, distributed systems, reusable software
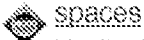
13 Reliability through redundant parallelism for micro-satellite computing

Ian Vince McLoughlin, Timo Rolf Bretschneider

February 2010 **Transactions on Embedded Computing Systems (TECS)** , Volume 9 Issue 3

Publisher: ACM   Request Permissions

Full text available: Pdf (509.22 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 33,   Downloads (12 Months): 49,   Downloads (Overall): 49,   Citation Count: 0

Spacecraft typically employ rare and expensive radiation-tolerant, radiation-hardened, or at least military qualified parts for computational and other mission critical subsystems. Reasons include reliability in the harsh environment of space, and systems ...

Keywords: COTS components, FPGA, Fault tolerance, hardware redundancy, micro-satellite, on-board computer, parallel processing

14 Collaborative augmented reality environments: integrating VR, working materials, and distributed work spaces

Monika Büscher, Michael Christensen, Kaj Grønbæk, Peter Krogh, Preben Mogensen, Dan Shapiro, Peter Ørbæk

September 2000 **CVE '00:** Proceedings of the third international conference on Collaborative virtual environments

Publisher: ACM ◈ Request Permissions

Full text available: Pdf (1.03 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 50, Downloads (Overall): 724,   Citation Count: 9

In this work, we present a new method for displaying stereo scenes, which speeds up the rendering time of complex geometry. We first discuss a scene splitting strategy, allowing us to partition objects to the distant background or the ...

Keywords: 3D workspace, CSCW, roomware, virtual office/project room, virtual reality, working material

15 BOTS: a constraint-based component system for synthesizing scalable software systems

Raju Pandey, Jeffrey Wu

July 2006 **LCTES '06:** Proceedings of the 2006 ACM SIGPLAN/SIGBED conference on Language, compilers, and tool support for embedded systems

Publisher: ACM ◈ Request Permissions

Full text available: Pdf (211.98 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 37, Downloads (Overall): 335,   Citation Count: 1

Embedded application developers create applications for a wide range of devices with different resource constraints. Developers want to maximize the use of the limited resources available on the device while still not exceeding the capabilities of the ...

Keywords: components, constraints, embedded systems, generative programming, runtime systems, wireless sensor networks

Also published in:

July 2006 **SIGPLAN Notices** Volume 41 Issue 7

16 Mapping irregular applications to DIVA, a PIM-based data-intensive architecture

Mary Hall, Peter Kogge, Jeff Koller, Pedro Diniz, Jacqueline Chame, Jeff Draper, Jeff LaCoss, John Granacki, Jay Brockman, Apoorv Srivastava, William Athas, Vincent Freeh, Jaewook Shin, Joonseok Park

January 1999 **Supercomputing '99:** Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: Pdf (111.41 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Downloads (Overall): 276,   Citation Count: 26

17 NETKIT: a software component-based approach to programmable networking

Geoff Coulson, Gordon Blair, David Hutchison, Ackbar Joolia, Kevin Lee, Jo Ueyama, Antonio Gomes, Yimin Ye

October 2003   **SIGCOMM Computer Communication Review** , Volume 33 Issue 5

Publisher: ACM

Full text available: Pdf (316.64 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 27,   Downloads (Overall): 624,   Citation Count: 7

While there has already been significant research in support of openness and programmability in networks, this paper argues that there remains a need for generic support for the integrated development, deployment and management of programmable networking ...

Keywords: components, middleware, programmable networking, reflection

18 ASPEN: an adaptive spatial peer-to-peer network

Haojun Wang, Roger Zimmermann, Wei-Shinn Ku

November 2005   **GIS '05:** Proceedings of the 13th annual ACM international workshop on Geographic information systems

Publisher: ACM   Request Permissions

Full text available: Pdf (564.50 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 39,   Downloads (Overall): 293,   Citation Count: 2

Geographic Information Systems (GIS) are increasingly managing very large sets of data and hence a centralized data repository may not always provide the most scalable solution. Here we introduce a novel approach to manage spatial data by leveraging ...

Keywords: distributed spatial databases, peer-to-peer systems

19 Disens: scalable distributed sensor network simulation

Ye Wen, Rich Wolski, Gregory Moore

March 2007   **PPoPP '07:** Proceedings of the 12th ACM SIGPLAN symposium on Principles and practice of parallel programming

Publisher: ACM   Request Permissions

Full text available: Pdf (304.72 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 97,   Downloads (Overall): 453,   Citation Count: 6

Simulation is widely used for developing, evaluating and analyzing sensor network applications, especially when deploying a large scale sensor network remains expensive and labor intensive. However, due to its computation intensive nature, existent simulation ...

Keywords: distributed simulation, sensor network, simulation

20 A flexible Java framework for embedded systems

Juan A. Holgado-Terriza, Jaime Viúdez-Aivar

September 2009   **JTRES '09:** Proceedings of the 7th International Workshop on Java Technologies for Real-Time and Embedded Systems

Publisher: ACM   Request Permissions

Full text available: Pdf (981.17 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 125,   Downloads (Overall): 125,   Citation Count: 0

Today, several strategies are possible to build a complete embedded application, including software and hardware components with a reusable base to satisfy the increasing demands and requirements of actual embedded systems with shorter time to market. ...

Keywords: Java, embedded systems, flexibility, framework, microcontroller

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